

Summary of Changes in Programmes under UGCF

4.0.1.20(c) Recommended Prerequisites for Computer Science Undergraduate

Some courses laid down prerequisites that were desirable but could be optional. They have been revised keeping in view the background of the students. For example, some students already admitted to the BA program did not study Mathematics at +2 stage, but it is okay for them to take Programming and Data Structures courses. Also, the requisite background is covered as part of the course.

Recommended Prerequisites for Computer Science Undergraduate Programmes under UGCF-NEP							
<u>S. No.</u>	Programme Name	Core/DSE	Semester	Course Name Existing	Course Name Recommended	Pre-requisite	
						Existing	Recommended
1	B.Sc.(H) Computer Science	DSC	IV	DSC 11 Database Management Systems	Database Management Systems	DSC01 Programming using Python / A course in Python at plus 2 level, DSC08	NIL
2	B.Sc.(H) Computer Science	DSC	IV	DSC12 Computer Networks	Computer Networks	DSC 04 Object Oriented Programming with C++/ GE1a Programming using C++ / GE1b Programming with Python / DSC 01 Programming using Python / GE3b: Java Programming	NIL
3	B.Sc.(H) Computer Science	DSE/ GE	IV	Network Security		DSC 04 Object Oriented Programming with C++/ GE1a Programming using C++ / GE1b Programming with Python / DSC 01 Programming using Python / GE3b: Java Programming	NIL
4	B.Sc.(H) Computer Science	DSE/ GE	V	Data Mining II	Data Mining II	DSC01 Programming using Python, / GE1b Programming with Python / A1 Programming Fundamentals using Python ,Data Mining-I	Data Mining-I
5	B.Sc.(H) Computer Science	DSC	VI	DSC-16 Artificial Intelligence	Artificial Intelligence	DSC 04 Object Oriented Programming with C++/ GE 1a Programming using C++ / GE1b Programming with Python/ DSC 01 Programming using Python/ GE 3b: Java Programming	Programming using C++/Programmi ng using Python/Object Oriented Programming using Python

6	B.Sc.(H) Computer Science	DSC	VI	DSC-17 Machine Learning	Machine Learning	DSC01 Programming using Python / A course in Python at plus 2 level	Programming using Python/ bject Oriented Programming using Python
7	B.Sc.(H) Computer Science	DSE/ GE	VI	Deep Learning	Deep Learning	DSC03 Mathematics for Computing - I, DSC17 Machine Learning	Programming using Python/Object Oriented Programming using Python/Mathem atics for Computing
8	BSc. (Physical Sciences/ Mathematical Sciences)	DSC	II	DSC02: Data Structures using C++	Data Structures	Nil	Programming using C++
9	BSc. (Physical Sciences/ Mathematical Sciences)	DSC	IV	DSC04: Operating Systems	Operating Systems	DSC 01 Programming using Python/ A course in C/C++/Python at plus 2 level.	Programming using C++ / Python/Java
10	BSc. (Physical Sciences/ Mathematical Sciences)	DSC	VI	DSC06: Computer Networks	Computer Networks	DSC 04 Object Oriented Programming with C++/ GE 1a Programming using C++ / GE1b Programming with Python/ DSC 01 Programming using Python/ GE 3b: Java Programming	NIL
11	B.A. Programmes with Computer Science as Major discipline	DSC	IV	DSC04: Operating Systems	Operating Systems	DSC 01 Programming using Python/ A course in C/C++/Python at plus 2 level	Programming using C++ / Python/Java
12	B.A. Programmes with Computer Science as Non-major discipline	DSC		DSC04: Operating Systems	Operating Systems	DSC 01 Programming using Python/ A course in C/C++/Python at plus 2 level	Programming using C++ / Python/Java
13	B.A. Programmes with Computer Science as Major/Non- major discipline	DSC	VI	DSC06: Computer Networks	Computer Networks	DSC 04 Object Oriented Programming with C++/ GE 1a Programming using C++ / GE1b Programming with Python/ DSC 01 Programming using Python/ GE 3b: Java Programming	NIL

14	B.A. Programmes with Computer Science as Major discipline	DSC-A6	VI	A6: Deep Learning	Deep Learning	A5 Machine Learning	Programming using Python/Object Oriented Programming using Python/Mathematics for Computing
15	GENERIC ELECTIVES (GE-6a)	GE	VI	GE6a Computer Networks	Computer Networks	DSC 04 Object Oriented Programming with C++/ GE 1a Programming using C++ / GE1b Programming with Python/ DSC 01 Programming using Python/ GE 3b Java Programming	NIL
16	GENERIC ELECTIVES (GE-6c)	GE	VI	GE6c: Artificial Intelligence	Artificial Intelligence	DSC 04 Object Oriented Programming with C++/ GE 1a Programming using C++ / GE1b Programming with Python/ DSC 01 Programming using Python/ GE 3b: Java Programming	Programming using C++/Programming using Python/Object Oriented Programming using Python
<p><u>Note: Eligibility criteria for all courses specified in B.A./ B.Sc. Programme and B.Sc.(H) Computer Science will be class 12th pass in place of class 12th pass with Mathematics, wherever applicable.</u></p>							